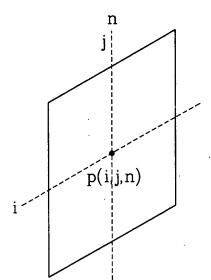
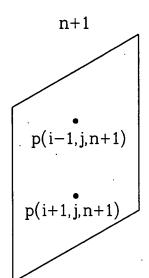
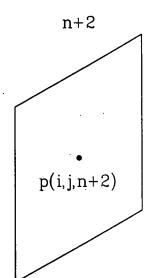


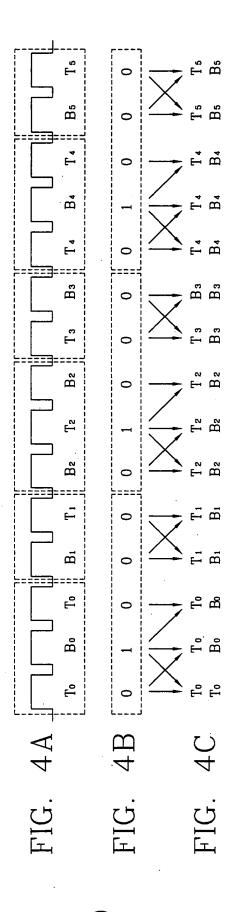


FIG. 3











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FIG. 5A

All variables are initialized to 0's every field.

```
FOR(i=1; i<Vertical_Size; i++){</pre>
   FOR(j=0; j<Horizontal_Size; j++){</pre>
       half_interval= |p(i-1,j,n+1)-p(i+1,j,n+1)|/2
       mean=(p(i-1,j,n+1)+p(i+1,j,n+1))/2
       bd_{n+2&n} = p(i,j,n+2) - p(i,j,n)
       IF(|p(i,j,n)-mean| \leq half\_interval) THEN
           bd_{n+1&n}=0
       ELSE
           bd_{n+1&n} = |p(i,j,n)-mean|-half_interval
       END IF
       final_bd_(n+1&n)=min\{bd_(n+2&n),bd_(n+1&n)\}
       sum_{(n+1\&n)} = sum_{(n+1\&n)} - motion_{(n+1\&n)}[0]
       FOR(k=0; k<6; k++)motion_(n+1&n)[k] = motion_(n+1&n)[k+1]
       IF(final_bd_(n+1&n)>THRESHOLD<sub>motion</sub>) THEN
           motion_{n+1&n}[6]=1
       ELSE
           motion_{n+1&n}[6]=0
       END IF
       sum_{(n+1\&n)} = sun_{(n+1\&n)} + motion_{(n+1\&n)}[6]
       IF(sum_(n+1&n)>3) THEN
           total\_motion\_(n+1&n)=total\_motion\_(n+1&n)+1
       IF(|p(i,j,n+2)-mean| \leq half_interval) THEN
           bd_{n+1&n+2}=0
       ELSE
           bd_{n+1}(n+1) = p(i,j,n+2) - mean - half_interval
       END IF
       final_bd_(n+1&n+2) = min\{bd_(n+2&n),bd_(n+1&n+2)\}
       sum_{(n+1&n+2)} = sum_{(n+1&n+2)} - motion_{(n+1&n+2)[0]}
       FOR(k=0; k<6; k++) motion_(n+1&n+2)[k]=motion_(n+1&n+2)[k+1]
       IF(final\_bd\_(n+1&n+2)>THRESHOLD_{motion}) THEN
           motion_{n+1&n+2}|6|=1
       ELSE
           motion_{n+1&n+2}[6]=0
       END IF
       sum_{(n+1&n+2)}=sum_{(n+1&n+2)}+motion_{(n+1&n+2)}[6]
       IF(sum_(n+1&n+2)>3) THEN
           total\_motion\_(n+1&n+2)=total\_motion\_(n+1&n+2)+1
       END IF
```

END IF

FIG. 5B

```
IF(|total_motion_(n+1&n)-total_motion_(n+1&n+2)| <THRESHOLD<sub>diff_motion</sub>) THEN
The scene change did not occurred.
      IE(total_motion_(n+1&n)<THRESHOLD_total_motion) THEN
        total_motion_(n+1&n)=0
      END IF
      IF(total\_motion\_(n+1\&n+2)< THRESHOLD_{total\_motion}) THEN
        total_motion_(n+1&n+2)=0
      END IF
      IF(total_motion_(n+1&n)< total_motion_(n+1&n+2) THEN
         The scene was abruptly changed in the (n+2)th field."
      ELSE IF(total_motion_(n+1&n)>total_motion_(n+1&n+2)) THEN
        "The scene was abruptly changed in the (n+1)th field."
        "The scene change did not occurred."
      END IF
  END IF
                                   FIG. 6
  All variables are initialized to 0's every field.
  FOR(i=1; i<Vertical_Size; i++){
      FOR(j=0; j<Horizontal_Size; j++){</pre>
         half_interval= |p(i-1,j,n+1)-p(i+1,j,n+1)|/2
         mean=(p(i-1,j,n+1)+p(i+1,j,n+1))/2
         IF(|p(i,j,n)-mean| \le half\_interval) and (|p(i,j,n+2)-mean| \le half\_interval)
             THEN bd_(n+2&n)=0
         ELSE
             bd_{n+2&n}=|p(i,j,n+2)-p(i,j,n)|
         END IF
         sum_{(n+2&n)=sum_{(n+2&n)-motion_{(n+2&n)[0]}}
         FOR(k=0; k<6; k++)motion_{n+2&n}[k] = motion_{n+2&n}[k+1]
         IF(final_bd_(n+2&n)>THRESHOLD<sub>motion</sub>) THEN
             motion_(n+2&n)[6]=1
         ELSE
             motion_(n+2&n)[6]=0
         END IF
         sum_{n+2&n}=sun_{n+2&n}+motion_{n+2&n}[6]
         IF(sum_(n+2&n)>3) THEN
             total_motion_(n+2&n)=total_motion_(n+2&n)+1
```